A NetCentric DoD C3I/CIO

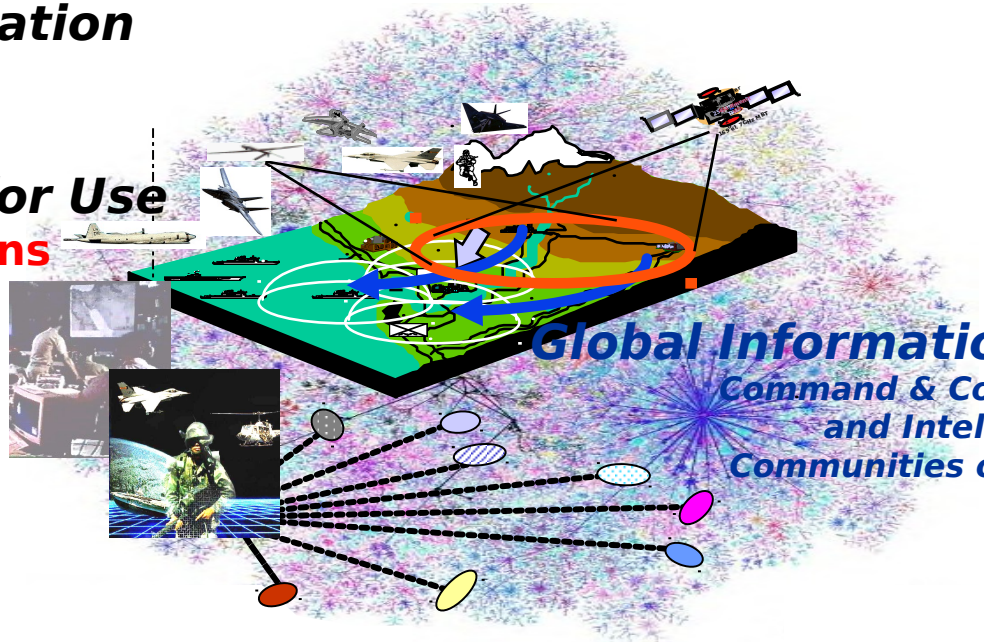
Net-Centric Enterprise Services (NCES)

Horizontal Fusion Enterprise Services
Proof of Concept Pilot

Services and tools that enable smart pull and fusion of data by Edge Use

Fused Information Available Everywhere Customized for Use

- Data
- Applications
- Processes



Horizontal Fusion Portfolio

Ent Svc Pilot

- **ICSIS Collateral Space - A. Dall, DIA**
- **NCES - R. Vietmeyer, DISA**
- GNCST
- NIMA-lite
- NSA-lite
- NORA
- CEC
- Edge Warrior
- DCGS
- IDM

FY03 HF Enterprise Services Pilot

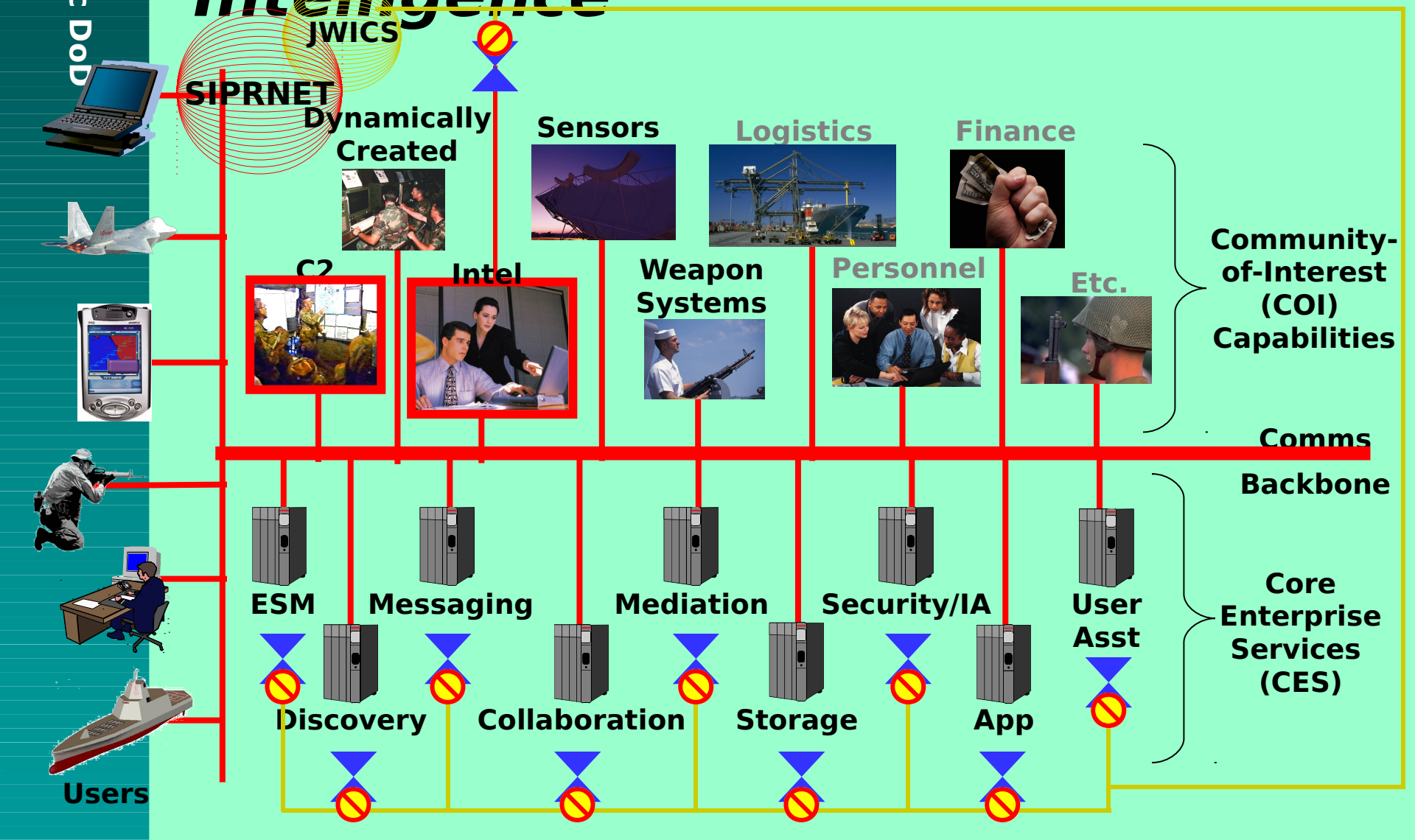
- **Pilot Core Enterprise Services (CES)**
  - **Security Services**
  - **Discovery Services**
  - **Application Services**
  - **Mediation Services**
  - Storage services
  - ESM services
  - Messaging services
  - Collaboration services
  - User assistance

Selective Demonstration, *but* not a focus of the pilot

- **Benefits**
  - CES based C2 and I capability
    - Other HF initiatives can "Publish" through CES
  - NCES Concept Development - vital AoA inputs

A NetCentric DoD C3I/CIO

Net-Centric *Command & Control and Intelligence*



Security Services

- User Access Control
  - Identification and authentication
  - Authorization
  - Single sign-on
- Cross-Domain Data Exchange
  - E-mail messaging
  - Structured GMI/COP and C2 data
  - Documents
  - Video
  - Metadata

Discovery Services

- Intelligent Search
  - Military vocabulary
  - Google bar
- Cataloging
  - Coordinated SIPRNet cataloging
  - Cross-domain cataloging (SIPRNet-JWICS)
- Integrated Metadata Management
- Discovery
  - People/expertise
  - Applications/services (e.g., UDDI)
  - Content

Application Services

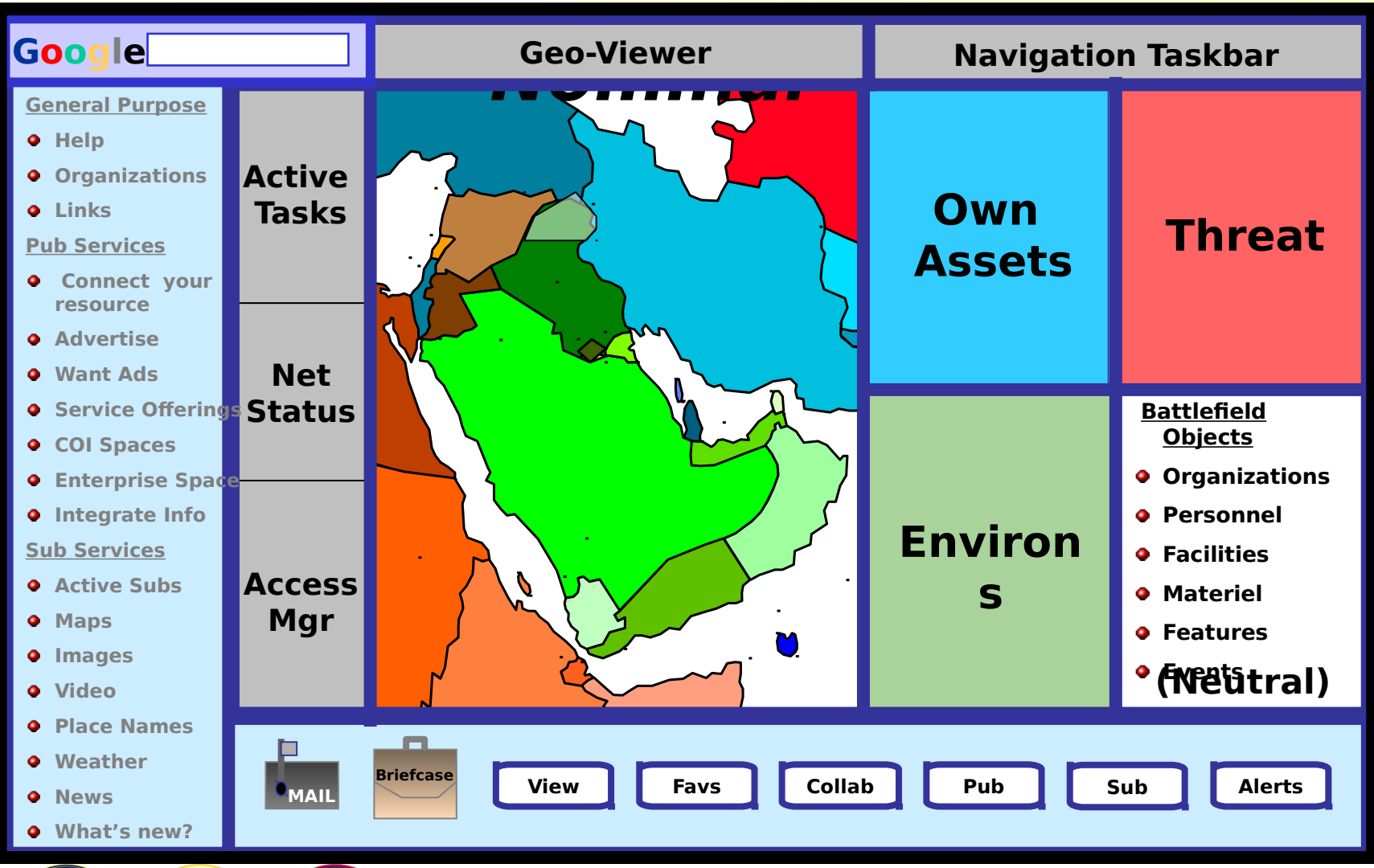
- Portal Infrastructures
  - Operational hosting
  - Development environment
- Integrated Visualization
  - Portlet management, integrated geospatial display
- Application Integration
  - Intel and C2 applications
  - ACTD capabilities
- Publication Services
  - Net-wide TPPU
  - Advertise available products and services
  - Post needs, task assets

Mediation Services

- NCES Discovery Metadata Vocabulary
  - Core Standard (Dublin Core)
  - Security (CAPCO)
  - High level DoD-IC taxonomy
  - COI extensions
- CES Federation
  - Intra-CES Metadata transformations
- COI-to-CES Transactions
  - Multi-ontology support
  - Semantic translations

A NetCentric DoD C3I/CIO

Enterprise Services Proof of Concept Pilot



Overview of Ent Svc Pilot Features

- **Capabilities**
  - Role-based Access/Sharing
  - Ontologies/Registry-Based Schema
  - Content Multi-Tagging
  - UDDI Registry
  - Portal Interoperability/Portlet Library
  - Syndication/Subscription Services
  - Ops/Intell Collaboration
  - Military “Google” System
  - MIDB Integration with VKB on SIPRNet
  - Video Asset Manager/Repository
- **Existing or Near-IOC Apps and Data Stores (tbd)**
  - Apps – Production Knowledge Online, Gemini,, Virtual Knowledge Base, Intel Portlets, CMMA, MDDS, etc…
  - Data – ISDS, FINTEL, Experts, Video, ISM, MIDB in XML, attaché reports, DoS reports, etc…

A NetCentric DoD C3I/CIO

Ent Svc Pilot

Discovery and Mediation

C2 and I Data

DBs

Vide o

Docs

Multi-Tagging

Ontology & Knowledge Mapping

UDDI Registry

Edge User

MLU-Google

Discovery

Syndication

Access

Guard

SCI

Subscription

Edge User

Security Access By Role

FSD/PKI

Portlet Library & Interface

Guard

Coalition

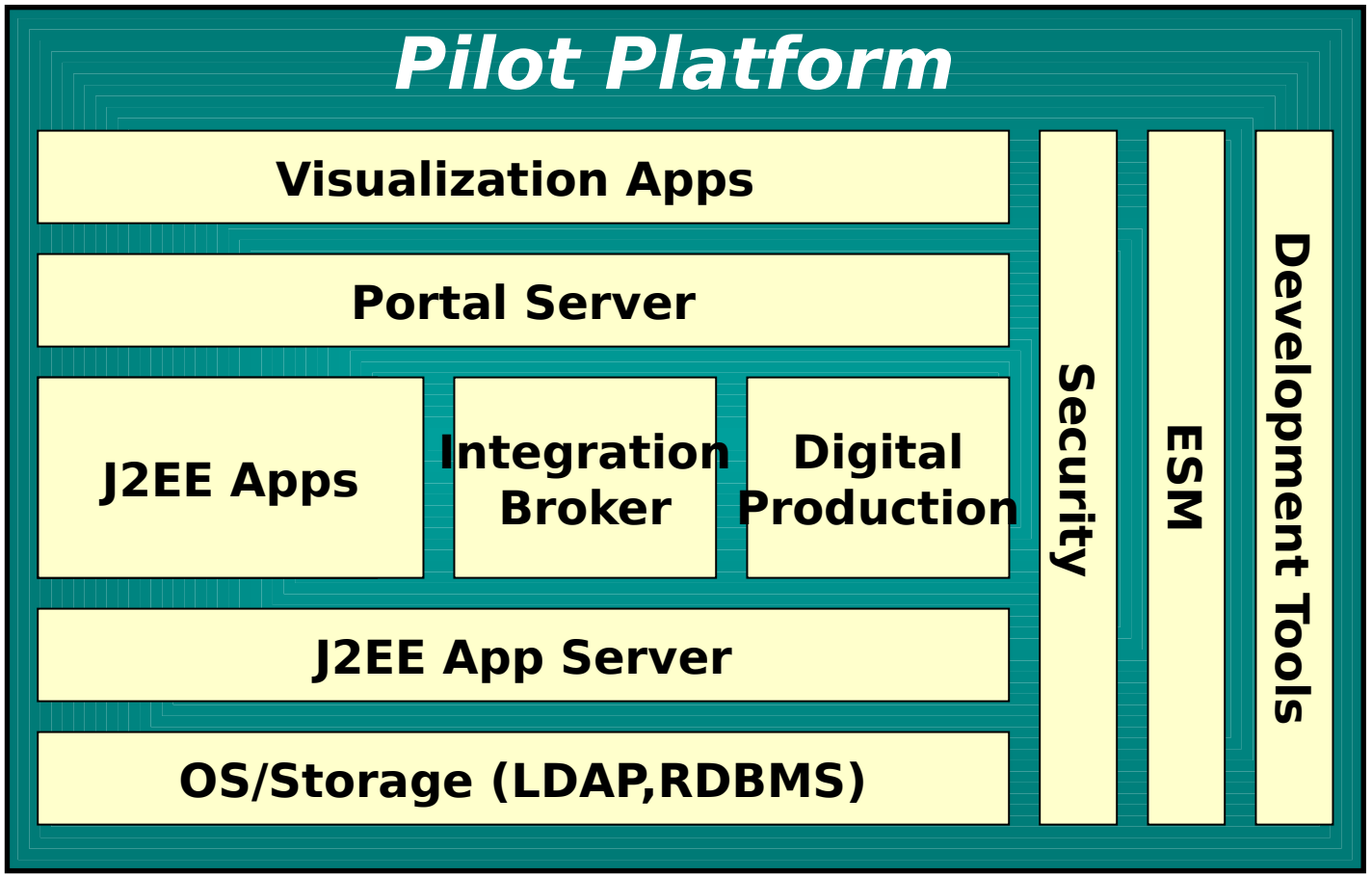
Portlet Collaboration

Publication

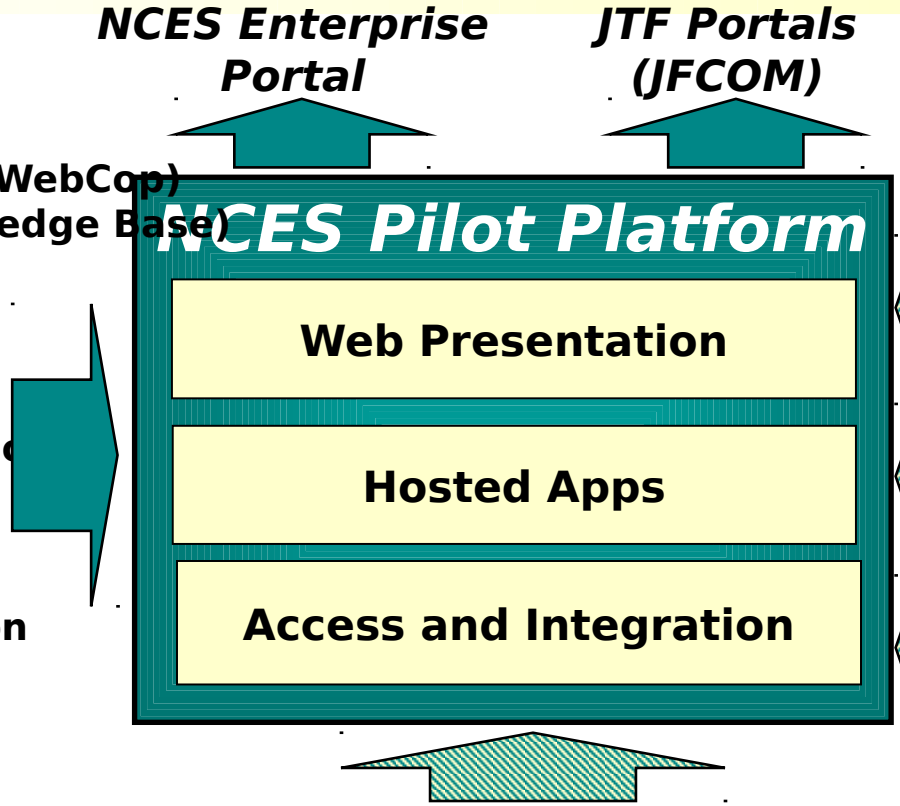
Portals

Power to the Edge

Ent Svc Pilot: Server Platform Configuration



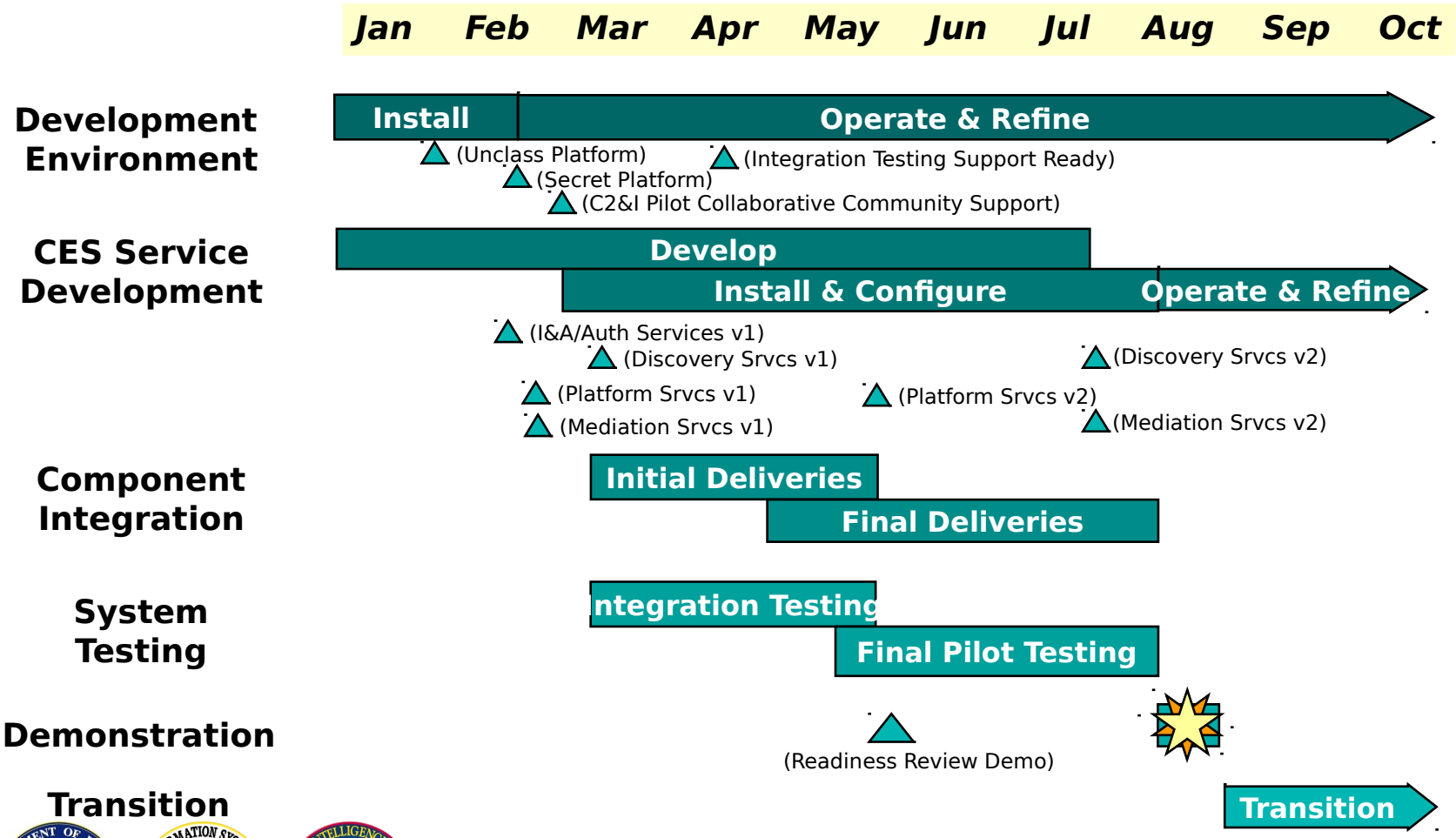
Ent Svc Pilot: Application Capabilities



- Visualization Server (WebCop)
- VKB (IC Virtual Knowledge Base)
- GCSS Portal Apps
- ABA NPS
- WEEMC
- JOPES Web Apps
- Enterprise UDDI Catalo
- SIPRNet Meta Search
  - Taxonomy Srvcs
  - Publication Srvcs
  - Content Syndication
  - Military Search
- CINC21
- XML Registry

- NIMA Gazetteer/OGC WS
- AF ATO/ACO, FrOB WS
- Metoc WS
- TDBM
- EI3 (ISDS, ITS)
- MIDB v2.1/VKB WS
- IDM&Intelink-S Catalogs
- GDS (PKI/PRS/ORG)
- DCTS/JIVA JCE
- DMS
- JOPES DB
- GCSS ECI

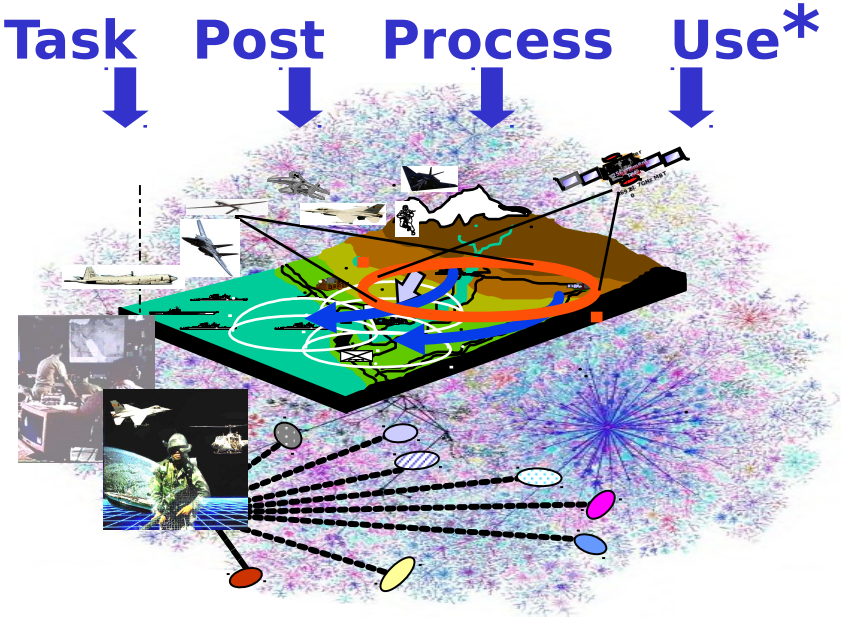
Enterprise Services Pilot: Schedule



Enterprise Services Pilot Summary

TPPU* demo infrastructure

- Extensible framework for CES
- Improved cross-network, cross-domain C2 and I support
- Fused data posted from federated knowledge stores
- Easy access to experts and syndicated data streams
- Metadata tagging for content, security, and administrative markup
- Role-based data sharing through new security technologies



BACK-UP

Ent Svc Pilot : Server Platform Details